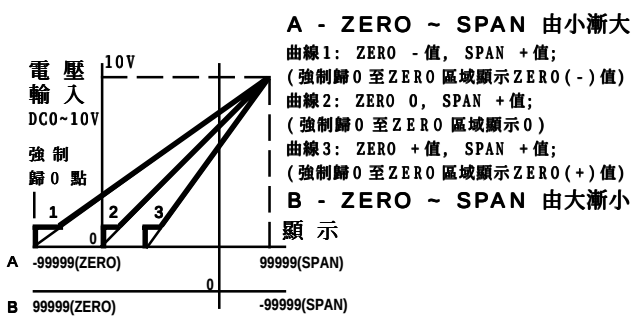
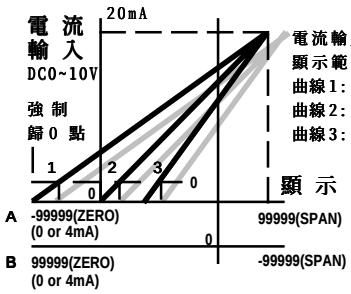
輸入與顯示關係圖：

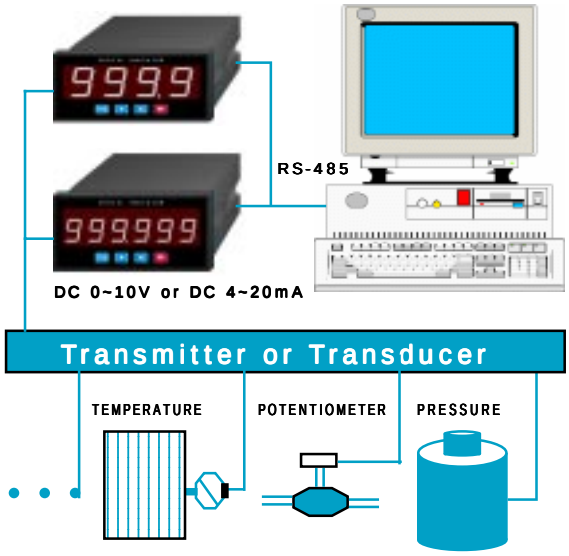


A - ZERO ~ SPAN 由小漸大
曲線1: ZERO -值, SPAN +值;
(強制歸0至ZERO區域顯示ZERO(-)值)
曲線2: ZERO 0, SPAN +值;
(強制歸0至ZERO區域顯示0)
曲線3: ZERO +值, SPAN +值;
(強制歸0至ZERO區域顯示ZERO(+)值)
B - ZERO ~ SPAN 由大漸小
顯 示

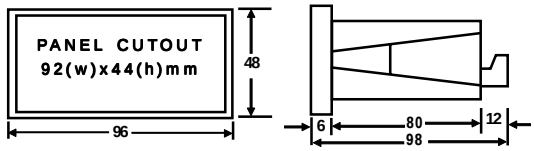


電流輸入強制歸0時
顯示範圍將隨0點平移
曲線1: ZERO -值, SPAN +值;
曲線2: ZERO 0, SPAN +值;
曲線3: ZERO +值, SPAN +值.

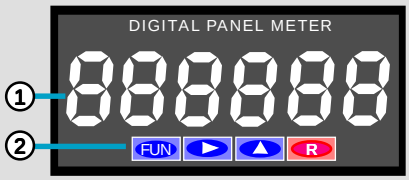
顯示字幕：4位數0.8"(20mm); 5/6位數0,56"(14.2mm),紅色LED.
顯示範圍：4位數 -1999~9999;
5位數 -99999~99999;
6位數 -199999~999999;
顯示精度：+/- 0.1% FS, +/- 2 counts.
顯示更新：5次/ 每秒.
過值顯示：OVER/ 最大負值交叉閃爍.
OVER/ 最大正值交叉閃爍.
SPAN 調整：4位數 -1999~9999;
5位數 -99999~99999;
6位數 -199999~999999;
ZERO 調整：4位數 -1999~9999;
5位數 -99999~99999;
6位數 -199999~999999;
小數設定：任意設定.
輸入選擇：0 =電流; 1 =電壓.(須配合端子台接線)
通訊位址：0~247(248~255保留).
通訊協議：ModBus (RTU; RTU/NoCRC; ASCII).
通訊速率：2400;4800;9600;14400;19200;
授權設定：0 ~ 8. (開放End_User設定參數組)
通訊介面：RS-485.
38400;57600;76800;115200(bps).
工作電源：AC115V,230V 50/60 Hz.
消耗功率：約5VA.
工作溫度：0~50°C,濕度80%RH以下.
儲存溫度：0~60°C,濕度70%RH以下.
外型尺寸：96(W)X48(H)X98(D)mm.
開孔尺寸：92(W)X44(H)mm.



外型尺寸及開孔尺寸：



面版：



① 顯示字幕：用於顯示各項值及功能代碼.

② 功能按鍵：用於設定各項設定值及歸0 .

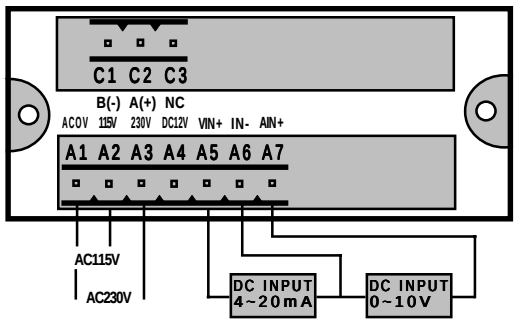
端子盤接線：

7-Pin 端子盤(抽取式)接腳(A1~A7)說明:

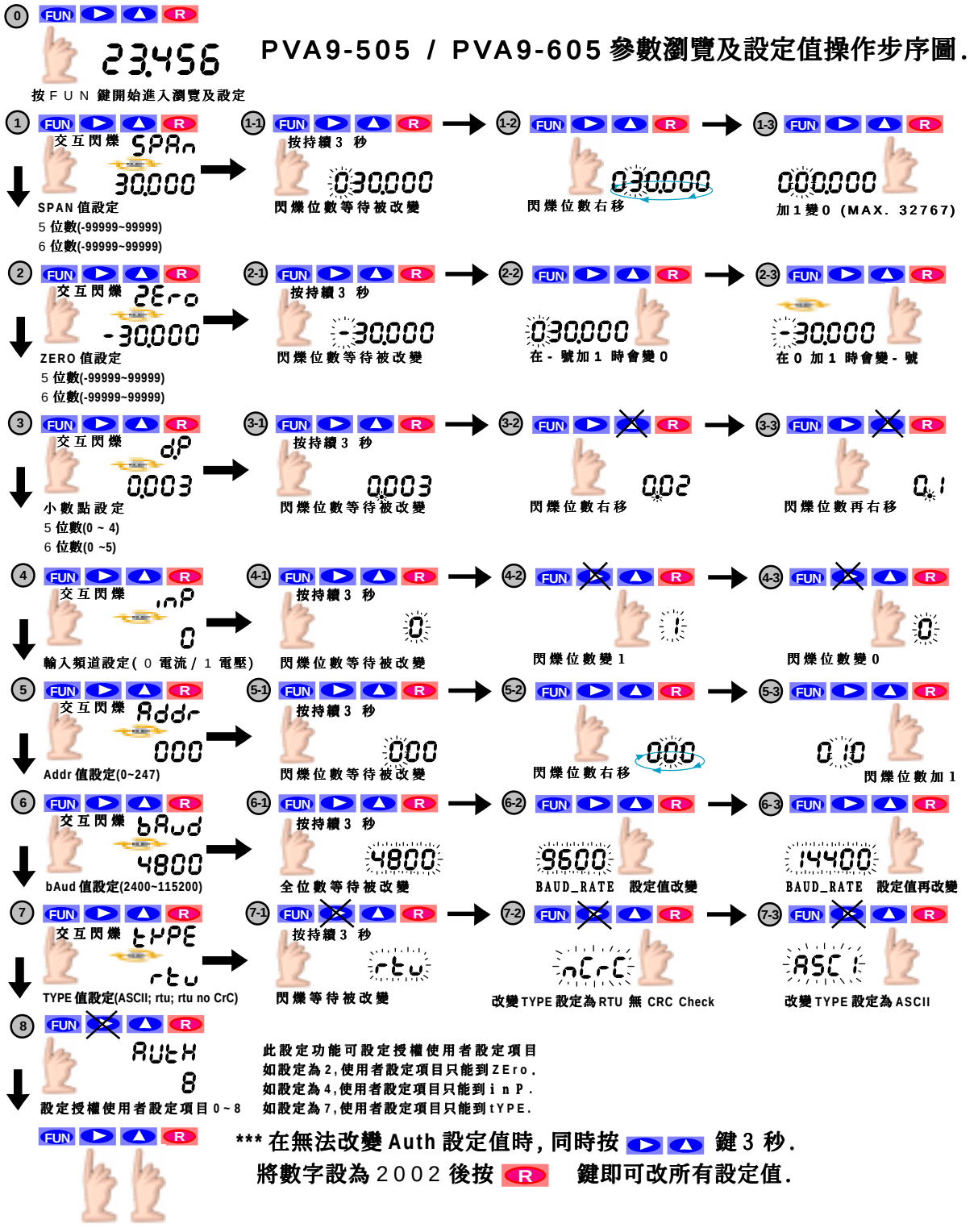
電源AC110V接端子A1,A2; AC220V接端子A1,A3.
端子A4 DC12V輸出(A4+/A6-).
端子A5 接DC 4~20mA輸入+.
端子A6 接輸入-.
端子A7 接DC 0~10V輸入+.

3-Pin 端子盤(抽取式)接腳(C1~C3)說明:

RS-485, C1(B)-;C2(A)+;C3不接.



FUN	按此鍵可觀看各項設定值參數(SPAn; ZEro; d.P; inP; Addr; bAud; tYPE; AutH)瀏覽功能. 在瀏覽功能時按此鍵持續 3 秒將進入設定功能.
▶	在設定功能時按此鍵將使待設定位數(閃爍) 右移一位數.
▲	在設定功能時按此鍵使待設定位數(閃爍) 設定值加 1 .
R	在瀏覽功能時按此鍵使顯示幕恢復顯示量測值同時取消瀏覽功能. 在顯示量測值時按此鍵(先按) + FUN 鍵持續 3 秒時將作零點歸 0 .



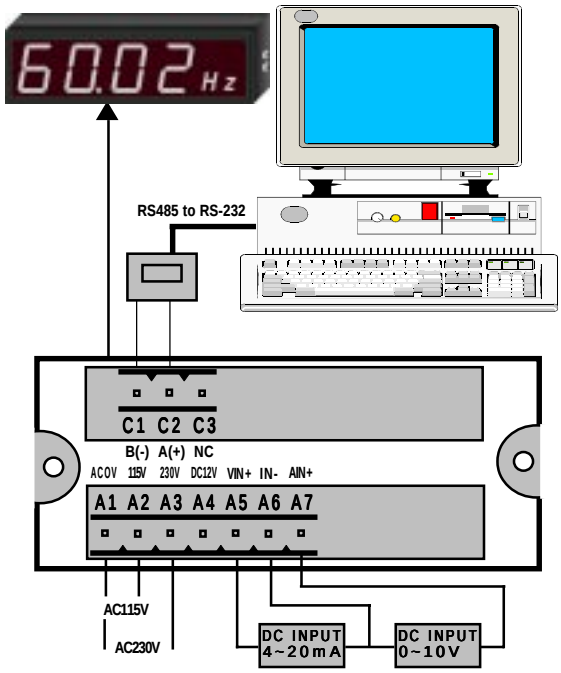
ModBus RTU Mode 通訊協定指令:

QUERY

Field Name	Example (Hex)
Header	
Slave Address	01
Function	03
Starting Address Hi	00
Starting Address Lo	00
No. of Words Hi	00
No. of Words Lo	02
CRC Check Lo byte	C4
CRC Check Hi byte	0B

RESPONSE

Field Name	Example (Hex)
Header	
Slave Address	01
Function	03
Byte Count	04
Data Word-0 Hi byte	00
Data Word-0 Lo byte	00
Data Word-1 Hi byte	00
Data Word-1 Lo byte	02
CRC Check Lo byte	F2
CRC Check Hi byte	7B



設定表之參數暫存器位址表: (R.= Read; W. = Write)

Measurement Decription	Register(Long) Address(Hex)	Register Word	Value	Remark
Real Data	00 00	2(R. only)	32 bits	Long Type, 4-Bytes
Display Data	00 02	2(R. only)	4 位(-1999~9999)	5 位(-99999~99999); 6 位(-99999~99999).
Span Adjust	00 04	1(R. only)	4 位(-1999~9999)	5 位(-99999~99999); 6 位(-99999~99999).
Zero Adjust	00 06	2(R. / W.)	4 位(-1999~9999)	5 位(-99999~99999); 6 位(-99999~99999).
Decimal Set	00 08	2(R. / W.)	0~3; 0~4; 0~5	1=x.x; 2=x.xx; 3=x.xxx; 4=x.xxxx
Input Select	00 0A	2(R. / W.)	0, 1	0= DC 4~20mA; 1= DC 0~10V.
ID Address Set	00 0C	2(R. / W.)	0~247	
Baud Rate Set	00 0E	2(R. / W.) 2(R. / W.)	0 ~ 9	0=2400; 1=4800; 2=9600; 3=14400; 4=19200; 5=28800; 6=38400; 7=57600; 8=76800; 9=115200 bps.
Protocal Type	00 10	1(R. / W.)	RTU; ASCII	RTU(0); RTU_no CRC Check(1); ASCII(2)
Lo_Active_Sel	00 12	1(R. / W.)	0, 1	0 = Lo-Set point active always
Authorlize	0014	1(R. / W.)	0~19	

ModBus ASCII Mode 通訊協定指令:

QUERY

Field Name	Example (Hex)	ASCII Characters
Header		:(colon)
Slave Address	01	0 1
Function	03	0 3
Starting Address Hi	00	0 0
Starting AddressLo	00	0 0
No. of Words Hi	00	0 0
No. of Words Lo	02	0 2
Error Check	FA	F A
Trailer		LRC(2 Chars.) CR LF

*Error Check=HEX(100-01-03-00-00-00-02)=FA

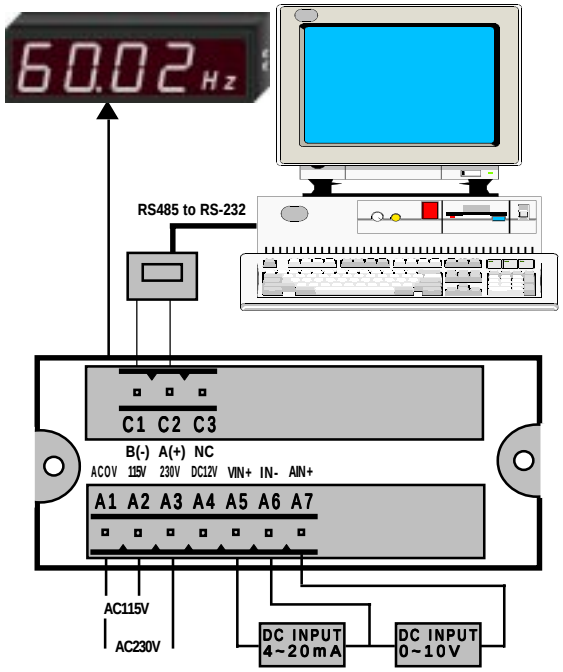
RESPONSE

Field Name	Example (Hex)	ASCII Characters
Header		:(colon)
Slave Address	01	0 1
Function	03	0 3
Byte Count	04	0 6
Data Word-0 Hi byte	07	0 2
Data Word-0 Lo byte	14	2 B
Data Word-1Hi byte	07	0 0
Data Word-1Lo byte	14	6 3
Error Check	C2	C 2
Trailer		LRC(2 Chars.) CR LF

*Error Check=HEX(100-01-03-04-07-14-07-14)=C2

Real Data = Hex(0714) = 1812

Display Data = Hex(0714) = 1812



設定表之參數暫存器位址表: (R.= Read; W. = Write)

Measurement Decription	Register(Long) Address(Hex)	Register Word	Value	Remark
Real Data	00 00	2(R. only)	32 bits	Long Type, 4-Bytes
Display Data	00 02	2(R. only)	4 位(-1999~9999)	5 位(-99999~99999); 6 位(-99999~99999).
Span Adjust	00 04	1(R. only)	4 位(-1999~9999)	5 位(-99999~99999); 6 位(-99999~99999).
Zero Adjust	00 06	2(R. / W.)	4 位(-1999~9999)	5 位(-99999~99999); 6 位(-99999~99999).
Decimal Set	00 08	2(R. / W.)	0~3; 0~4; 0~5	1=x.x; 2=x.xx; 3=x.xxx; 4=x.xxxx
Input Select	00 0A	2(R. / W.)	0, 1	0= DC 4~20mA; 1= DC 0~10V.
ID Address Set	00 0C	2(R. / W.)	0~247	
Baud Rate Set	00 0E	2(R. / W.) 2(R. / W.)	0 ~ 9	0=2400; 1=4800; 2=9600; 3=14400; 4=19200; 5=28800; 6=38400; 7=57600; 8=76800; 9=115200 bps.
Protocal Type	00 10	1(R. / W.)	RTU; ASCII	RTU(0); RTU_no CRC Check(1); ASCII(2)
Lo_Active_Sel	00 12	1(R. / W.)	0, 1	0 = Lo-Set point active always
Authorlize	0014	1(R. / W.)	0~19	